**LAPORAN TUGAS BESAR ALJABAR LINEAR DAN GEOMETRI**

**SISTEM PERSAMAAN LINEAR**

**IF2123 ALJABAR LINEAR DAN GEOMETRI**

**![Graphical user interface, application, Teams

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE5hdGFuYWVsIERpYXMAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzIyAACSkgACAAAAAzIyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**PROGRAM STUDI TEKNIK INFORMATIKA**

**SETKOLAH TEKNIK ELEKTRO DAN INFORMATIKA**

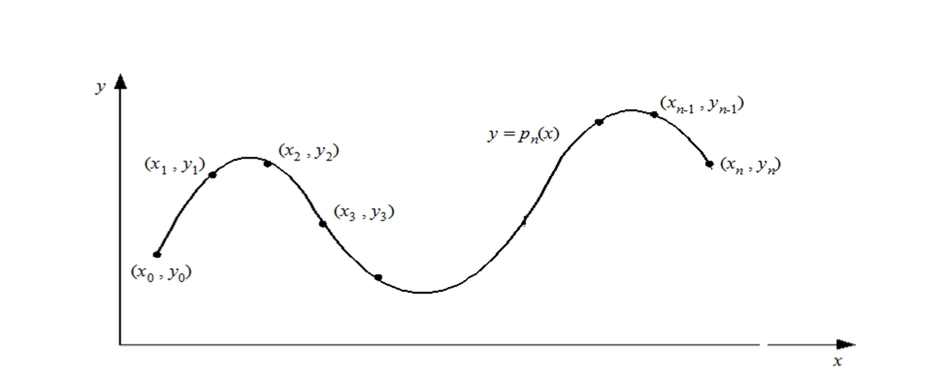
**INSTITUT TEKNOLOGI BANDUNG**

**2021**

**BAB I**

**Permasalahan**

Sistem persamaan linier (SPL) banyak ditemukan di dalam bidang sains dan rekayasa. Anda sudah mempelajari berbagai metode untuk menyelesaikan SPL, termasuk menghitung determinan matriks. Sembarang SPL dapat diselesaikan dengan beberapa metode, yaitu metode eliminasi Gauss, metode eliminasi Gauss-Jordan, metode matriks balikan (*x* = *A*-1*b*), dan kaidah *Cramer* (khusus untuk SPL dengan *n* peubah dan *n* persamaan). Solusi sebuah SPL mungkin tidak ada, banyak (tidak berhingga), atau hanya satu (unik/tunggal). Salah satu pengaplikasiannya adalah mengestimasi sebuah nilai fungsi dengan interpolasi polinom. Persoalan interpolasi polinom adalah sebagai berikut: Diberikan *n*+1 buah titik berbeda, (*x*0, *y*0), (*x*1, *y*1), ..., (*xn*, *yn*). Tentukan polinom *pn*(*x*) yang menginterpolasi (melewati) semua titik-titik tersebut sedemikian rupa sehingga *yi* = *pn*(*xi*) untuk *i* = 0, 1, 2, ..., *n*.



Setelah polinom interpolasi *pn*(*x*) ditemukan, *pn*(*x*) dapat digunakan untuk menghitung perkiraan nilai *y* di sembarang titik di dalam selang [*x*0, *xn*].

Polinom interpolasi derajat *n* yang menginterpolasi titik-titik (*x*0, *y*0), (*x*1, *y*1), ..., (*xn*, *yn*). adalah berbentuk *pn*(*x*) = *a*0 + *a*1*x* + *a*2*x* + ... + *anx* . Jika hanya ada dua titik, (*x*0, *y*0) dan (*x*1, *y*1), maka polinom yang menginterpolasi kedua titik tersebut adalah *p*1(*x*) =*a*0 + *a*1*x* yaitu berupa persamaan garis lurus. Jika tersedia tiga titik, (*x*0, *y*0), (*x*1, *y*1), dan (*x*2, *y*2), maka polinom yang menginterpolasi ketiga titik tersebut adalah *p*2(*x*) = *a*0+ *a*1*x* + *a*2*x*2 atau persaman kuadrat dan kurvanya berupa parabola. Jika tersedia empat titik, (*x*0, *y*0), (*x*1, *y*1), (*x*2, *y*2), dan (*x*3, *y*3), polinom yang menginterpolasi keempat titik tersebut adalah *p*3(*x*) = *a*0 + *a*1*x* + *a*2*x* + *a*3*x* , demikian seterusnya. Dengan cara yang sama kita dapat membuat polinom interpolasi berderajat *n* untuk *n* yang lebih tinggi asalkan tersedia (*n*+1) buah titik data. Dengan menyulihkan (*xi*, *yi*) ke dalam persamaan polinom *pn*(*x*) = *a*0 + *a*1*x* + *a*2*x*2 +...+*anxn* untuk *i*=0,1,2,..., *n*, akan diperoleh *n* buah sistem persamaan lanjar dalam *a*0, *a*1, *a2*, ..., *an*,

*a*0 + *a*1*x*0 + *a*2*x*02 + ... + *an x*0*n* = *y*0

*a*0 + *a*1*x*1 + *a*2*x*12 + ... + *an x*1*n* = *y*1

... ...  
a0 + *a*1*xn* + *a*2*xn*2 + ... + *an xnn* = *yn*

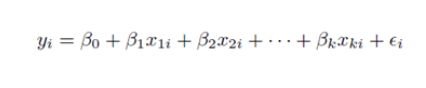
Solusi sistem persamaan lanjar ini, yaitu nilai *a*0, *a*1, ..., *an*, diperoleh dengan menggunakan metode eliminasi Gauss yang sudah anda pelajari. Sebagai canton, misalkan diberikan tiga buah titik yaitu (8.0, 2.0794), (9.0, 2.1972), dan (9.5, 2.2513). Tentukan polinom interpolasi kuadratik lalu estimasi nilai fungsi pada *x* = 9.2. Polinom kuadratik berbentuk *p*2(*x*) = *a*0 + *a*1*x* + *a*2*x* . Dengan menyulihkan ketiga buah titik data ke dalam polinom tersebut, diperoleh sisten persamaan lanjar yang terbentuk adalah

*a*0 + 8.0*a*1 + 64.00*a*2 = 2.0794

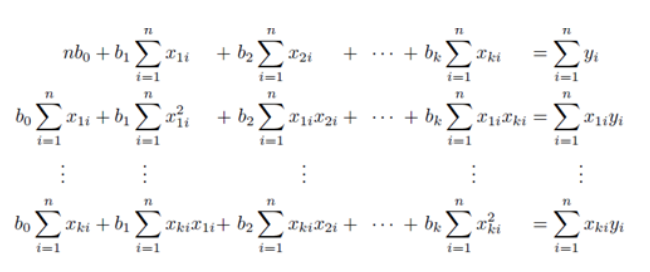
*a*0 + 9.0*a*1 + 81.00*a*2 = 2.1972

*a*0 + 9.5*a*1 + 90.25*a*2 = 2.2513.

Penyelesaian sistem persamaan dengan metode eliminasi Gauss menghasilkan *a*0 = 0.6762, *a*1 = 0.2266, dan *a*2 = -0.0064. Polinom interpolasi yang melalui ketiga buah titik tersebut adalah *p*2(*x*) = 0.6762 + 0.2266*x* - 0.0064*x* . Dengan menggunakan polinom ini, maka nilai fungsi pada *x* = 9.2 dapat ditaksir sebagai berikut: *p*2(9.2) = 0.6762 + 0.2266(9.2) - 0.0064(9.2) = 2.2192. Regresi Linear (akan dipelajari lebih lanjut di Probabilitas dan Statistika) merupakan salah satu metode untuk memprediksi nilai selain menggunakan Interpolasi Polinom. Meskipun sudah ada rumus jadi untuk menghitung regresi linear sederhana, terdapat rumus umum dari regresi linear yang bisa digunakan untuk regresi linear berganda, yaitu.



Untuk mendapatkan nilai dari setiap *βi* dapat digunakan *Normal Estimation Equation for Multiple Linear Regression* sebagai berikut:



Sistem persamaan linier tersebut diselesaikan dengan menggunakan metode eliminasi Gauss.

**BAB 2**

**Teori Dasar**

Proses penyelesaian sistem persamaan linear menggunakan metode eliminasi gauss dilakukan dengan menyederhakan matriks terlebih dahulu. Setelah matriks disederhakan menjadi matriks eselon baris, dilakukan substitusi mundur (*backward substitution*) mulai dari persamaan yang terakhir (matriks dengan baris terbesar) menuju matriks paling atas. Matriks eselon baris adalah matriks yang memiliki 1 utama pada setiap baris kecuali semua elemen pada baris tersebut adalah nol.

Metode eliminasi Gauss-Jordan tidak jauh berbeda dari metode eliminasi Gauss. Metode eliminasi Gauss-Jordan menyederhanakan matriks menjadi matriks eselon baris tereduksi. Seperti matriks eselon baris, matriks eselon baris tereduksi memiliki 1 utama pada setiap baris tetapi elemen diatas 1 utama dan dibawah 1 utama adalah nol. Sehingga tidak perlu dilakukan substitusi mundur pada matriks karena setiap elemen sudah menunjuk pada suatu nilai. Metode lain untuk menentukan solusi spl adalah kaidah cramer. Menggunakan kaidah cramer, langsung dapat ditentukan solusi dari spl menggunakan determinan. Contohnya untuk mencari solusi x dari matriks A, dapat dilakukan det(x)/det(A) yang dalam hal ini det(x) adalah determinan matriks A yang elemen pada seluruh kolom elemen x sudah dihapus.

Untuk menentukan determinan dari sebuah matriks terdapat berbagai metode. Contohnya dengan metode eliminasi gauss dan ekspansi kofaktor. Menggunakan metode eliminasi gauss, matriks yang sudah disederhakan menjadi matriks eselon baris nilai nilai yang digunakan untuk membagi tiap baris menjadi satu dikalikan. Apabila terdapat sebuah baris yang semua elmennny adalah nol, maka determinan matriks tersebut juga nol. Jika menggunakan metode ekspansi kofaktor, diambil satu baris atau satu kolom dan tiap elemen tersebut dikalikan dengan kofaktornya. Setelah dikalikan, seluruh elemen dijumlakan untuk memperoleh determinan dari matriks. Kofaktor matriks diperoleh dari mengaplikasikan tanda minus dan plus secara bergantian pada matriks minor. Minor dari sebuah matriks adalah determinan dari seluruh elemen matriks kecuali baris dan kolom elemen itu sendiri.

Sebuah matriks B disebut matriks balikan dari A apabila jika A dan B dikalikan maka akan menghasilkan sebuah matriks identitas. Matriks identitas adalah matriks persegi berukuran n kali n yang semua elemen pada diagonalnya adalah 1, dan seluruh elemen lainnya adalah nol. Matriks tidak memiliki balikan jika determinannya adalah nol. Menentukan matriks balikan dapat menggunakan metode adjoint atau menggunakan matriks identitas. Matriks dengan metode adjoint dihitung dengan rumus

Adjoint adalah transpose dari matriks kofaktor.

Interpolasi polinom digunakan untuk mengestimasi sebuah nilai dalam fungsi. Fungsi tersebut ditentukan dari titik titik yang tersedia. Contohnya terdapat titik (x, y) dan (y, z) dan ingin mencari nilai a. Maka menggunakan interpolasi polinom, dari titik (x, y) dan (y,z) dapat ditentukan sebuah fungsi yang memenuhi keduanya sehingga dapat ditentukan hasil (range) dari a. Interpolasi dilakukan dengan memasukkan tiap nilai dalam matriks sedemekian rupa sehingga terbentuk sebuah matriks augmented. Dari matriks tersebut dicari solusinya dan terbentuk suatu persamaan yang memeuhi titik titik yang tersedia. Regresi linear berganda juga digunakan untuk mencari estimasi dari suatu nilai dari data yang diberikan. Regresi linear membentuk sebuah matriks augmented yang akan dicari solusinya dan menghasilkan sebuah persamaan.

**BAB 3**

**Struktrur Kode**

Program dibagi menjadi beberapa *class* yang terdiri dari

“matriks”

Matriks melakukan operasi operasi yang menjadi dasar pengoperasian matriks. Metode yang terdapat didalam matriks termasuk konstruktor, untuk membentuk matriks. Prosedur untuk menampilka matriks ke layar, dan membaca matriks dari masukan pengguna. Operasi operasi dasar seperti pengecekan apakah matriks identitas, dan matriks persegi. Dalam class matriks juga terdapat metode untuk menentukan matriks eselon baris. Matriks eselon baris diperlukan untuk mencari solusi persamaan linear dari matriks augmented. Mengikuti matriks eselon baris, juga terdapat fungsi untuk menentukan matriks eselon baris tereduksi.

Fungsi untuk menentukan determinan juga terdapat dalam class matriks, dengan metode eliminasi gauss maupun metode ekspansi kofaktor. Untuk mendukung fungsi determinan, dibuat fungsi menentukan matriks minor, dan matriks kofaktor.

“SPL”

SPL berisi fungsi untuk menentukan solusi dari sistem persamaan linear. Penentuan solusi spl dengan metode matriks balikan dan kaidah cramer. Dengan syarat ukuran matriks n kali n (persegi), jika tidak maka tidak bisa ditemukan solusi.

“matriksParametrik”

Terdapat fungsi untuk menentukan solusi dari matriks dalam matriks parametrik. Langkah penentuan solusi tersebut bisa dengan eliminasi gauss atau eliminasi gausss jordan. Hasil bisa tidak ada, bisa hanya satu, atau banyak.

“interpolasi”

Interpolasi digunakan untuk mencari sebuah solusi dan membuat sebuah persamaan, sehingga bisa mengestimasi nilai dari masukan pengguna. Penentuan solusi dimuali dengan menerima masukan dari pengguna berupa titik. Kemudian dari titik yang diperoleh akan dibentuk sebuah matriks yang besar matriks mengikuti jumlah titik yang dimasukkan. Kemudian solusi dari matriks akan diperoleh dan sistem akan meminta masukan nilai yang ingin diestimasi. Jika solusi dari matriks ada, sistem akan menampilkan hasil dari estimasi, sebaliknya jika tidak ada solusi sistem akan menampilkan pesan tidak ada solusi.

“regresi”

Mirip seperti interpolasi, regresi menerima data berupa jumlah data dan jumlah variabel yang diinginkan. Kemudian menggunakan “Normal Estimation Equation for Multiple Linear Regression” terbentuk sebuah matriks yang akan dicari solusinya. Jika solusi ada, program meminta pengguna untuk memasukkan nilai yang ingin diestimasi, jika tidak ada solusi, program menampilkan pesan ke layar.

**BAB 4**

**Hasil Eksperimen**

Test 1 : SPL Test 2 : Determinan

**A computer screen capture

Description automatically generated with medium confidenceA screenshot of a computer

Description automatically generated**

Test 3 :SPL Test 4 : interpolasi

**Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application

Description automatically generated**

**BAB 5**

1. **Kesimpulan**

Menentukan solusi sistem persamaan linear dapat dilakukan dengan berbagai cara, contohnya menggunakan eliminasi gauss, eliminasi gauss-jordan, matriks balikan dan kaidah cramer. Penentuan determinan juga bervariasi mulai dari dengan metode eliminasi gauss jordan, hingga metode ekspansi kofaktor. Implementasi operasi operasi tersebut dibuat dengan bahasa java.

Interpolasi dilakukan dengan mencari solusi matriks yang sudah dibuat. Matriks tersebut berasal dari masukan titik pengguna yang sudah dihitung sedemekian rupa sehingga menghasilkan matriks. Tidak jauh dari interpolasi, perhitungan regresi juga dapat dilakukan dengan mencari solusi matriks yang sudah dibuat menggunakan persamaan untuk regresi linear berganda. Sehingga dengan metode interpolasi atau regresi linear berganda, bisa mengestimasi berapa nilai yang akan dihasilkan.

1. **Saran**

Adapun proyek ini masih memiliki banyak kekurangan sehingga masih perlu pengembangan lebih lanjut lagi. Program akan lebih baik jika menggunakan GUI, agar tampilan lebih bagus. *Source code* dari program juga masih banyak yang bisa lebih dirapihkan.

**Daftar Pustaka**

Anton, Howard & Chris Rorres. (2013). *Elementary Linear Algebra 11th edition*. United State of America : Wiley